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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/080,682	02/25/2002	Veronique Henriet	612.41243X00	4685
20457 7990 01/20/2004			EXAMINER	
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET			SINES, BRIAN J	
SUITE 1800 ARLINGTON, VA. 22209,9889			ART UNIT	PAPER NUMBER

DATE MAILED: 01/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)		
			10/080,682	HENRIOT ET AL.		
Office Action Su		nary	Examiner	Art Unit		
			Brian J. Sines	1743		
Period fe	- The MAILING DATE of this or Reply	communication appe	ars on the cover sheet	with the correspondence address -		
THE - External control of the contro	IORTENED STATUTORY PE MAILING DATE OF THIS CO reaces of fire may be available under the SS (%) MONTH'S term the maining date op period for righty specified above is listed to period for righty specified above is listed in the major within the set or extended one is to major within the set or extended one major second by the Olizice batter than three of power term adjustment. See 37 CPR	OMMUNICATION. a provisions of 37 GPR 1.13/ of this communication. than thirty (30) days, a repty- testimum statutory period will od for repty will, by statute, a to months after the mailing o	B(a). In no event, however, may a within the statutory minimum of the I apply and will expire SDC (8) MC sause the application to become	is righly be timely filled listly (30) days will be considered finnely. NOTHS from the marking date of this communication. ABANDOWING TAS US C 8 1335		
1)[2]	Responsive to communicati	on(s) filed on 19 De	cember 2003.			
2a)	This action is FINAL. 2b)⊠ This action is non-final.					
3)[Since this application is in o closed in accordance with the	ondition for allowand	e except for formal ma parte Quayle, 1935 C.	tters, prosecution as to the merits is D. 11, 453 O.G. 213.		
Disposit	ion of Claims					
4)⊠	Claim(s) 1-5 is/are pending	In the application.				
	4a) Of the above claim(s)		n from consideration.			
5)	Claim(s) is/are allowe	ed.				
6)⊠	Claim(s) 1-5 is/are rejected.					
7)	Claim(s) is/are object	ed to.				
8)[Claim(s) are subject	to restriction and/or	election requirement.			
Applicat	ion Papers					
9)	The specification is objected	to by the Examiner.				
10)	The drawing(s) filed on	_ is/are: a) _ accer	oted or b) objected to	by the Examiner.		
	Applicant may not request that	any objection to the d	rawing(s) be held in abeya	ince. See 37 CFR 1.85(a).		
	Replacement drawing sheet(s)	including the correction	in is required if the drawin	g(s) is objected to. See 37 CFR 1.121(d).		
11)	The oath or declaration is ob	jected to by the Exa	miner. Note the attache	ed Office Action or form PTO-152.		
Priority (ınder 35 U.S.C. §§ 119 and	120				
12)[_ a)i	Acknowledgment is made of All b) Some c) No 1. Certified copies of the	one of:		§ 119(a)-(d) or (f).		
٠,	Certified copies of the	priority documents copies of the priorit iternational Bureau	have been received in a y documents have been (PCT Rule 17.2(a)).	n received in this National Stage		
13)□ A si 3	Acknowledgment is made of a ince a specific reference was 7 CFR 1.78.	claim for domestic included in the first	priority under 35 U.S.C sentence of the specifi	§ 119(e) (to a provisional application cation or in an Application Data Sheet.		
) The translation of the for			been received. . §§ 120 and/or 121 since a specific		
re	eference was included in the	first sentence of the	specification or in an A	pplication Data Sheet. 37 CFR 1.78.		
Attachmen	t(s)					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing	Roview (PTO-948)	4) Interview 5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)		

DETAILED ACTION

Flection/Restrictions

The election restriction requirement has been withdrawn. Claims 1-5 have been rejoined for examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1 - 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Regarding claims 1 and 2, these claims recite a method for the continuous detection of thermodynamic hydrate formation conditions. However, the method fails to recite a specific method step regarding the detection or measuring of these conditions or physical parameters, which permit the determination or calculation of these thermodynamic hydrate formation conditions. Is the hydrate dissociation temperature determined by a measurement detection or calculation? What physical parameters are required to be measured so that the hydrate dissociation temperature may be determined using this method? How are these physical parameters measured? Furthermore, how is the particular lumping of the petroleum fluids carried out in order to isolate the hydrate forming components? How is the data relative to each of the particular fractions applied to each of the modules in order to determine at any point in the pipe the hydrate dissociation temperature? Regarding claim 2, how does the control device compare the temperature of the petroleum fluids with the determined hydrate dissociation temperature? How does the control device known when to apply the measures intended to fight

hydrate formation? What are the measures intended to fight hydrate formation? Is the temperature controlled and manipulated to control hydrate formation or is an additive added?

Allowable Subject Matter

Claims 1 - 5 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

The following is an examiner's statement of reasons for allowance:

The cited prior art neither teach or fairly suggest a method intended for the continuous detection of thermodynamic hydrate formation conditions within a pipeline using a mechanistic hydrodynamic module, and an integrated compositional thermodynamic module, as recited in claim 1, and including the application of measures intended to mitigate or climinate hydrate formation, as recited in claim 2.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fung et al. teach a method for reducing solids build-up in a hydrocarbon stream. Faille et al. teach a method for forming a simulation model of transient two-phase flows in pipelines. Toma et al. teach a method and apparatus for use in determining a property of a multiphase fluid. Pauchon et al. teach a method for modeling multiphase flows in pipelines. Thomas et al. teach a process for reducing the agglomoration tendency of hydrates in pipelines.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines, Ph.D. whose telephone number is (571) 272-1263.

The examiner can normally be reached on Monday - Friday (11:30 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is not available.

Jill Warden

Super (Vory Fatort Examiner

Western Contact 1700